

SUPPLEMENTARY INFORMATION

Manuscript: Longitudinal course of GDF15 levels before acute hospitalization and death in the general population

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Supplementary Table 1. Univariate associations of covariates with log-transformed GDF15 levels at baseline (round 1).

	n	B-estimate	95% CI	p-value
Demographics				
Age (years)	2176	0.019	(0.018 – 0.021)	<.0001
Male	2176	0.005	(-0.029 – 0.040)	.76
Daily smoker	2176	0.190	(0.157– 0.224)	<.0001
BMI (kg/m ²)	2175	0.011	(0.007 – 0.016)	<.0001
Cardiovascular risk factors				
Diabetes	2176	0.175	(0.024 – 0.326)	.023
Cardiovascular disease	2176	0.081	(0.034 – 0.128)	.0008
Total cholesterol (mmol/L)	2174	0.082	(0.067 – 0.096)	<.0001
HDL cholesterol (mmol/L)	2174	-0.024	(-0.065 – 0.018)	.263
Biomarkers of organ function				
CRP (mg/L)	2166	0.012	(0.010 – 0.015)	<.0001
Cystatin C (mg/L)	2171	1.343	(1.250 – 1.436)	<.0001
eGFR (mL/min/1.73m ²)	2171	-0.012	(-0.013 – -0.011)	<.0001
AST (U/L)	2158	0.010	(0.009 – 0.012)	<.0001
GGT (U/L)	2169	0.002	(0.002 – 0.007)	<.0001
hs-cTnI (ng/L)	2126	0.003	(-0.001 – 0.007)	.138

AST: aspartate transaminase; BMI: body mass index; CRP: C-reactive protein; eGFR: estimated glomerular filtration rate; HDL: high density lipoprotein; hs-cTnI: high-sensitive troponin I; GGT: gamma-glutamyl transferase.

Supplementary Table 2. Baseline characteristics of all participants included in the MONICA cohort and participants included in the present study.

	Participants included in MONICA n=3785	Participants included in the present study n=2176
Demographics and lifestyle		
Age (years)	41.4 (31.6-51.4)	41.2 (31.6-50.9)
Male (%)	1940 (51.3)	1048 (48.2)
Smoker (%)	2070 (54.7)	1054 (48.4)
BMI (kg/m ²)	24.1 (21.9-26.8)	23.9 (21.8-26.4)
Physical activity level		
Almost completely inactive	1072 (28.4)	532 (24.5)
Some physical activity	1958 (51.8)	1142 (52.5)
Regular activity	701 (18.6)	465 (21.4)
Regular hard physical training	49 (1.3)	37 (1.7)
Cardiovascular risk factors		
Diabetes (%)	83 (2.2)	29 (1.3)
Cardiovascular disease (%)	709 (18.8)	92 (14.8)
Total cholesterol (mmol/L)	6.0 (5.3-6.8)	5.9 (5.2-6.8)
HDL cholesterol (mmol/L)	1.4 (1.2-1.7)	1.5 (1.2-1.8)
Biomarkers of organ function		
CRP (mg/L)	1.2 (0.6-2.8)	1.1 (0.5-2.3)
Creatinine (mg/dL)	0.8 (0.7-0.9)	0.8 (0.7-0.9)
Cystatin C (mg/L)	0.7 (0.6-0.8)	0.7 (0.6-0.8)
eGFR (mL/min/1.73m ²)	101.1 (88.9 – 111.2)	101.6 (90.0 – 110.6)
AST (U/L)	26.0 (21.0 – 33.0)	26.0 (20.6 – 32.0)
GGT (U/L)	24.0 (16.0 – 41.1)	22.0 (15.0 – 36.0)
hs-cTnI (ng/L)	2.6 (1.6 – 4.0)	2.4 (1.5 – 3.7)

Data are presented as median (interquartile range) or n (%).

AST: aspartate transaminase; BMI: body mass index; CRP: C-reactive protein; eGFR: estimated glomerular filtration rate; HDL: high density lipoprotein; hs-cTnI: high-sensitive troponin I; GGT: gamma-glutamyl transferase.